

Maria A Founti

List of Publications by Year in descending order

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113
papers

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citations

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all docs

114
docs citations

114
times ranked

2913
citing authors

#	ARTICLE	IF	CITATIONS
1	Process Simulation and Life Cycle Assessment of Ceramic Pigment Production: A Case Study of Green Cr2O3. Processes, 2021, 9, 1731.	1.3	2
2	Integrating LCA with Process Modeling for the Energetic and Environmental Assessment of a CHP Biomass Gasification Plant: A Case Study in Thessaly, Greece. Eng, 2020, 1, 2-30.	1.2	7
3	Maritime Transport in a Life Cycle Perspective: How Fuels, Vessel Types, and Operational Profiles Influence Energy Demand and Greenhouse Gas Emissions. Energies, 2020, 13, 2739.	1.6	19
4	Performance of a ventilated facade system under fire conditions: An experimental investigation. Fire and Materials, 2020, 44, 776-792.	0.9	3
5	Energy Savings in an Office Building with High WWR Using Glazing Systems Combining Thermochromic and Electrochromic Layers. Energies, 2020, 13, 3020.	1.6	18
6	Fire Performance of CLT Members: A Detailed Review of Experimental Studies Across Multiple Scales. , 2020, , 251-257.		1
7	The effect of base chemistry choice in a generated n-hexane oxidation model using an automated mechanism generator. International Journal of Chemical Kinetics, 2019, 51, 786-798.	1.0	1
8	Thermal Assessment of a Novel Drywall System Insulated with VIPs. Energies, 2019, 12, 2373.	1.6	7
9	Cost optimisation and life cycle analysis of SOEC based Power to Gas systems used for seasonal energy storage in decentral systems. Journal of Energy Storage, 2019, 26, 100987.	3.9	21
10	An Experimental and Detailed Chemical Kinetic Investigation of the Addition of C2 Oxygenated Species in Rich Ethylene Premixed Flames. Combustion Science and Technology, 2019, 191, 2112-2135.	1.2	1
11	Testing the validity of a mechanism describing the oxidation of binary n-heptane/toluene mixtures at engine operating conditions. Combustion and Flame, 2019, 199, 241-248.	2.8	13
12	Two new methods for the in-situ measurement of the overall thermal transmittance of cold frame lightweight steel-framed walls. Energy and Buildings, 2018, 170, 183-194.	3.1	29
13	A comparative study of the effect of varied reaction environments on a swirl stabilized flame geometry via optical measurements. Fuel, 2018, 216, 826-834.	3.4	6
14	Coupled thermo-mechanical simulation for the performance-based fire design of CFS drywall systems. Journal of Constructional Steel Research, 2018, 145, 196-209.	1.7	6
15	Solar wall enhanced with phase-change materials: a detailed numerical simulation study. Advances in Building Energy Research, 2017, 11, 87-103.	1.1	8
16	Assessment of Fire Engineering Design Correlations Used to Describe the Geometry and Thermal Characteristics of Externally Venting Flames. Fire Technology, 2017, 53, 709-739.	1.5	13
17	Computational assessment of a full-scale Mediterranean building incorporating wallboards with phase change materials. Indoor and Built Environment, 2017, 26, 1429-1443.	1.5	7
18	Experimental determination of the effective thermal conductivity of Vacuum Insulation Panels at fire temperatures. Fire and Materials, 2017, 41, 738-749.	0.9	1

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19	An investigation of the effect of post-injection schemes on soot reduction potential using optical diagnostics in a single-cylinder optical diesel engine. <i>International Journal of Engine Research</i> , 2017, 18, 400-411.	1.4	8
20	Energy management and primary energy optimization of a thermally interconnected semi-autonomous commercial district via optimized 1/4-CHP dispatch strategy. <i>Sustainable Cities and Society</i> , 2017, 32, 160-170.	5.1	7
21	Fire behaviour of gypsum plasterboard wall assemblies: CFD simulation of a full-scale residential building. <i>Case Studies in Fire Safety</i> , 2017, 7, 23-35.	1.0	12
22	A comparative assessment of the standardized methods for the in-situ measurement of the thermal resistance of building walls. <i>Energy and Buildings</i> , 2017, 154, 198-206.	3.1	60
23	Thermal characteristics of externally venting flames and their effect on the exposed facade surface. <i>Fire Safety Journal</i> , 2017, 91, 451-460.	1.4	16
24	Energy Analysis of the Effects of High-Level Reincorporation of Post-consumer Recycled Gypsum in Plasterboard Manufacturing. <i>Waste and Biomass Valorization</i> , 2017, 8, 1829-1839.	1.8	6
25	Numerical investigation of the effect of vacuum insulation panels on the thermal bridges of a lightweight drywall envelope. <i>Journal of Facade Design and Engineering</i> , 2016, 4, 3-18.	0.1	8
26	Detailed Kinetics as a Tool for Investigating HCCI Conditions on Engine Performance and Emissions. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.0	2
27	Simplified correlations of gypsum board thermal properties for simulation tools. <i>Fire and Materials</i> , 2016, 40, 229-245.	0.9	6
28	Allene and Propyne Combustion in Premixed Flames: A Detailed Kinetic Modeling Study. <i>Combustion Science and Technology</i> , 2016, 188, 776-792.	1.2	3
29	A Systematic LCA-enhanced KPI Evaluation towards Sustainable Manufacturing in Industrial Decision-making Processes. A Case Study in Glass and Ceramic Frits Production. <i>Procedia CIRP</i> , 2016, 48, 158-163.	1.0	16
30	Geometrical characteristics of externally venting flames: Assessment of fire engineering design correlations using medium-scale compartment-facade fire tests. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 780-790.	1.7	16
31	Towards Identifying Flame Patterns in Multiple, Late Injection Schemes on a Single-Cylinder Optical Diesel Engine. <i>Combustion Science and Technology</i> , 2016, 188, 2217-2235.	1.2	1
32	Thermal and Mechanical Computational Study of Load-Bearing Cold-Formed Steel Drywall Systems Exposed to Fire. <i>Fire Technology</i> , 2016, 52, 2071-2092.	1.5	10
33	Characteristics of Externally Venting Flames and Their Effect on the Facade: A Detailed Experimental Study. <i>Fire Technology</i> , 2016, 52, 2043-2069.	1.5	17
34	Experimental investigation of the fire resistance of multi-layer drywall systems incorporating Vacuum Insulation Panels and Phase Change Materials. <i>Fire Safety Journal</i> , 2016, 81, 8-16.	1.4	21
35	Experimental Investigation on the Influence of Simulated EGR Addition on Swirl-Stabilized CH ₄ Flames. <i>Journal of Energy Engineering - ASCE</i> , 2016, 142, .	1.0	3
36	KPI and LCA Evaluation of Integrated Microwave Technology for High Temperature Processes. <i>Procedia CIRP</i> , 2015, 29, 492-497.	1.0	9

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37	Fire behavior of regular and latent heat storage gypsum boards. <i>Fire and Materials</i> , 2015, 39, 507-517.	0.9	8
38	An Experimental Investigation on the Effect of Diluent Addition on Flame Characteristics in a Single Cylinder Optical Diesel Engine. , 2015, , .		6
39	An experimental and numerical simulation study of an active solar wall enhanced with phase change materials. <i>Journal of Facade Design and Engineering</i> , 2015, 3, 71-80.	0.1	6
40	Some aspects of combustion chemistry of C1â€C2 oxygenated fuels in low pressure premixed flames. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 437-445.	2.4	19
41	Fire safety aspects of PCM-enhanced gypsum plasterboards: An experimental and numerical investigation. <i>Fire Safety Journal</i> , 2015, 72, 50-58.	1.4	39
42	Experimental investigation of a radiant porous burner performance with simulated natural gas, biogas and synthesis gas fuel blends. <i>Fuel</i> , 2015, 158, 835-842.	3.4	55
43	A hybrid methodology for the determination of the effective heat capacity of PCM enhanced building components. <i>Renewable Energy</i> , 2015, 76, 790-804.	4.3	31
44	Analysis of the flame structure for lean methaneâ€air combustion in porous inert media by resolving the hydroxyl radical. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 3381-3388.	2.4	37
45	Development and Parametric Evaluation of a Tabulated Chemistry Tool for the Simulation of n-Heptane Low-Temperature Oxidation and Autoignition Phenomena. <i>Journal of Combustion</i> , 2014, 2014, 1-13.	0.5	3
46	Thermal performance of a building envelope incorporating ETICS with vacuum insulation panels and EPS. <i>Energy and Buildings</i> , 2014, 85, 654-665.	3.1	83
47	Fire protection of light and massive timber elements using gypsum plasterboards and wood based panels: A large-scale compartment fire test. <i>Construction and Building Materials</i> , 2014, 73, 163-170.	3.2	43
48	Comparative assessment of internal and external thermal insulation systems for energy efficient retrofitting of residential buildings. <i>Energy and Buildings</i> , 2013, 64, 123-131.	3.1	173
49	Development of a solid reaction kinetics gypsum dehydration model appropriate for CFD simulation of gypsum plasterboard wall assemblies exposed to fire. <i>Fire Safety Journal</i> , 2013, 58, 151-159.	1.4	30
50	Performance investigation of Fischerâ€Tropsch kerosene blends in a laboratory-scale premixed flame burner. <i>Experimental Thermal and Fluid Science</i> , 2013, 44, 868-874.	1.5	8
51	A generalized methodology for the definition of reactive porous materials physical properties: Prediction of gypsum board properties. <i>Construction and Building Materials</i> , 2013, 48, 804-813.	3.2	16
52	Experimental thermal characterization of a Mediterranean residential building with PCM gypsum board walls. <i>Building and Environment</i> , 2013, 61, 93-103.	3.0	128
53	An experimental investigation of stability and operation of a biogas fueled porous burner. <i>Fuel</i> , 2013, 103, 278-284.	3.4	55
54	Experimental and Computational Investigation of CO Production and Dispersion in an Automotive Repair Shop. <i>Indoor and Built Environment</i> , 2013, 22, 750-765.	1.5	3

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55	Assessment of Chemical Markers for Heat-Release Rate Correlations in Laminar Premixed Flames. <i>Combustion Science and Technology</i> , 2013, 185, 1482-1508.	1.2	21
56	Gypsum plasterboards enhanced with phase change materials: A fire safety assessment using experimental and computational techniques. <i>MATEC Web of Conferences</i> , 2013, 9, 06002.	0.1	2
57	Comparative assessment of CFD Tools and the Eurocode Methodology in describing Externally Venting Flames. <i>MATEC Web of Conferences</i> , 2013, 9, 03003.	0.1	2
58	Gypsum board dehydration kinetics at autogenous water vapour partial pressure. <i>Thermochimica Acta</i> , 2012, 545, 141-147.	1.2	14
59	Assessment of fuel Interchangeability in Domestic Scale SOFC Systems Based on a Reactor Network Approach. <i>Energy Procedia</i> , 2012, 28, 140-152.	1.8	1
60	Development of an SOFC based Micro-CHP System in the Framework of the European Project FC-DISTRICT. <i>Energy Procedia</i> , 2012, 28, 170-181.	1.8	16
61	Experimental and computational study of methane mixtures pyrolysis in a flow reactor under atmospheric pressure. <i>Energy</i> , 2012, 43, 103-110.	4.5	40
62	Combustion chemistry aspects of alternative fuels reforming for high-temperature fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16649-16662.	3.8	11
63	Treatment of natural stones with Phase Change Materials: Experiments and computational approaches. <i>Applied Thermal Engineering</i> , 2012, 48, 136-143.	3.0	18
64	Porous burners for low emission combustion: An experimental investigation. <i>Energy</i> , 2012, 45, 213-219.	4.5	112
65	Heat and moisture transfer through a steel stud gypsum board assembly exposed to fire. <i>Construction and Building Materials</i> , 2012, 26, 746-754.	3.2	22
66	Gypsum board reaction kinetics at elevated temperatures. <i>Thermochimica Acta</i> , 2012, 529, 6-13.	1.2	43
67	Energy efficiency and environmental assessment of a typical marble quarry and processing plant. <i>Journal of Cleaner Production</i> , 2012, 32, 10-21.	4.6	62
68	A Detailed Kinetic Modeling Study of Benzene Oxidation and Combustion in Premixed Flames and Ideal Reactors. <i>Energy & Fuels</i> , 2011, 25, 1950-1963.	2.5	41
69	Comparative environmental behavior of bus engine operating on blends of diesel fuel with four straight vegetable oils of Greek origin: Sunflower, cottonseed, corn and olive. <i>Fuel</i> , 2011, 90, 3439-3446.	3.4	121
70	Assessment of the reactor network approach for integrated modelling of an SOFC system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6112-6122.	3.8	9
71	Scrutinizing Gypsum Board Thermal Performance at Dehydration Temperatures. <i>Journal of Fire Sciences</i> , 2011, 29, 111-130.	0.9	21
72	A 3D CFD Modelling Study of a Diesel Oil Evaporation Device Operating in the Stabilized Cool Flame Regime. <i>Journal of Computational Multiphase Flows</i> , 2010, 2, 219-233.	0.8	0

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73	A fuzzy approach to incorporate uncertainty in the PROMETHEE multicriteria method. International Journal of Multicriteria Decision Making, 2010, 1, 80.	0.1	10
74	Numerical investigation of simultaneous heat and mass transfer mechanisms occurring in a gypsum board exposed to fire conditions. Applied Thermal Engineering, 2010, 30, 1461-1469.	3.0	36
75	Computational Modeling of Interaction Between Actions and Action Effects of FPSO Topside Structures Subject to Jet Fire. , 2010, , .		0
76	Numerical Simulation of Diesel Spray Evaporation in a "Stabilized Cool Flame" Reactor: A Comparative Study. Flow, Turbulence and Combustion, 2009, 82, 599-619.	1.4	7
77	The behavior of self-compacting concrete containing micro-encapsulated Phase Change Materials. Cement and Concrete Composites, 2009, 31, 731-743.	4.6	397
78	Detailed kinetic modelling of non-catalytic ethanol reforming for SOFC applications. International Journal of Hydrogen Energy, 2009, 34, 7626-7637.	3.8	23
79	On the assumption of using n-heptane as a "surrogate fuel" for the description of the cool flame oxidation of diesel oil. Proceedings of the Combustion Institute, 2009, 32, 3197-3205.	2.4	28
80	Power aspects of a horizontal ring mill pulverizer under continuous comminution of olivine. International Journal of Mineral Processing, 2008, 85, 85-92.	2.6	2
81	Detailed kinetic modelling of the T-POX reforming process using a reactor network approach. International Journal of Hydrogen Energy, 2008, 33, 2816-2825.	3.8	26
82	CFD modelling of a "stabilized cool flame" reactor with reduced mechanisms and a direct integration approach. Chemical Engineering Science, 2008, 63, 424-433.	1.9	10
83	Turbulent Sprays Evaporating Under "Stabilized Cool Flame" Conditions: Assessment of two CFD Approaches. Numerical Heat Transfer, Part B: Fundamentals, 2007, 52, 51-68.	0.6	10
84	Quantification of emissions from the co-incineration of cutting oil emulsions in cement plants " Part I: NO _x , CO and VOC. Fuel, 2007, 86, 1144-1152.	3.4	27
85	Quantification of emissions from the co-incineration of cutting oil emulsions in cement plants " Part II: Trace species. Fuel, 2007, 86, 2491-2501.	3.4	16
86	Assessment of simplified thermal radiation models for engineering calculations in natural gas-fired furnace. International Journal of Heat and Mass Transfer, 2007, 50, 5260-5268.	2.5	38
87	Experimental survey of the pressure cone and temperature field of an A/T missile system. WIT Transactions on Modelling and Simulation, 2007, , .	0.0	0
88	A tabulated chemistry approach for numerical modeling of diesel spray evaporation in a "stabilized cool flame" environment. Combustion and Flame, 2006, 145, 259-271.	2.8	25
89	A comparative study of numerical models for Eulerian "Lagrangian simulations of turbulent evaporating sprays. International Journal of Heat and Fluid Flow, 2006, 27, 424-435.	1.1	45
90	NUMERICAL MODELLING OF TRANSPORT PHENOMENA IN A DIESEL SPRAY "STABILIZED COOL FLAME" REACTOR. Combustion Science and Technology, 2006, 178, 1087-1115.	1.2	5

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91	NUMERICAL SIMULATION OF DIESEL SPRAY EVAPORATION EXPLOITING THE "STABILIZED COOL FLAME" PHENOMENON. , 2005, 15, 1-18.		9
92	EQUILIBRIUM EVAPORATION SPRAY MODELING FOR APPLICATION IN COOL FLAMES. Clean Air, 2005, 6, 357-374.	0.0	0
93	Impinging jet cooling on concave surfaces. AICHE Journal, 2004, 50, 1672-1683.	1.8	44
94	Modeling of the gas-particle flow in industrial classification chambers for design optimization. Powder Technology, 2002, 125, 298-305.	2.1	14
95	Heat and mass transfer study of impinging turbulent premixed flames. Heat and Mass Transfer, 2002, 38, 425-432.	1.2	23
96	Study of impinging turbulent jet flows using the isotropic low-Reynolds number and the algebraic stress methods. Computational Mechanics, 2002, 28, 381-389.	2.2	8
97	Industrial-scale processing of granite surfaces by natural gas jet flames. Applied Thermal Engineering, 2002, 22, 393-405.	3.0	6
98	Energy Savings and Environmental Impacts from Fuel Substitution in Premixed Flame Processes. Clean Air, 2002, 3, 337-358.	0.0	1
99	Modeling the characteristic types and heat release of stretched premixed impinging flames. Computational Mechanics, 2001, 27, 88-96.	2.2	3
100	Numerical study of turbulent diesel flow in a pipe with sudden expansion. Applied Mathematical Modelling, 2001, 25, 319-333.	2.2	23
101	Effects of pressure and impingement angle in flaming processes. Canadian Journal of Chemical Engineering, 2000, 78, 834-841.	0.9	5
102	Radiative heat transfer in natural gas-fired furnaces. International Journal of Heat and Mass Transfer, 2000, 43, 1801-1809.	2.5	70
103	The relative importance of combustion mechanisms in industrial premixed flames under high pressure. Applied Thermal Engineering, 2000, 20, 925-940.	3.0	12
104	Modelling of stretched natural gas diffusion flames. Applied Mathematical Modelling, 2000, 24, 419-435.	2.2	8
105	Effects of Increasing Particle Loading in an Axisymmetric, Vertical, Liquid-Solid Sudden Expansion Flow. Journal of Fluids Engineering, Transactions of the ASME, 1999, 121, 171-178.	0.8	7
106	A NOVEL DRY PULVERIZER FOR LOW COST PRODUCTION OF POWDERS. Particulate Science and Technology, 1999, 17, 217-228.	1.1	4
107	Title is missing!. Flow, Turbulence and Combustion, 1998, 60, 283-300.	1.4	19
108	Experimental and computational investigations of nearly dense two-phase sudden expansion flows. Experimental Thermal and Fluid Science, 1998, 17, 27-36.	1.5	37

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109	Evaluation of beam refraction effects in a 3D laser Doppler anemometry system for turbomachinery applications. <i>Measurement Science and Technology</i> , 1996, 7, 922-931.	1.4	10
110	Experimental and Computational Investigation of the Two-Dimensional Channel Flow Over Two Fences in Tandem. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1988, 110, 48-54.	0.8	32
111	Shell-side distribution and the influence of inlet conditions in a model of a disc-and-doughnut heat exchanger. <i>Experiments in Fluids</i> , 1985, 3, 293-300.	1.1	7
112	Velocity characteristics of three-dimensional disc-stabilised diffusion flames. <i>Letters in Heat and Mass Transfer</i> , 1979, 6, 1-12.	0.3	0
113	Potential for Implementation of Environmental Management Systems & the EU Ecolabel in the Marble Sector. <i>Key Engineering Materials</i> , 0, 548, 157-170.	0.4	1